## C++ ASSIGNMENT

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1.Ques :Calculate the time complexity for the following code
snippet.
for(int i = 0; i < n; i++) {
for(int j = 0; j * j < n; j++) {
cout << "PhysicsWallah ";</pre>
Ans: O(n*sqrt(n))
2.Ques :Calculate the time complexity for the following code
snippet.
for(int i = 0; i < n; i++) {
for(int j = 0; j * j < n; j++) {
cout << "PhysicsWallah";
Ans: O(nlogn)
3.Ques :Calculate the time complexity for the following code
snippet.
int c = 0;
for(int i = 0; i < n; i++) {
for(int j = 1; j * j < n; j *= 2) {
C++;
Ans: O(nlogn)
```

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4.Ques:Calculate the time complexity for the following code
snippet.
int c = 0;
for(int i = n; i > 0; i /= 2) {
for(int j = 0; j < i; j ++) {
C++;
Ans: O(n)
5.Ques:Calculate the time complexity for the following code
snippet.
int c = 0;
for(int i = 1; i < n; i*=2) {
for(int j = n; j > i; j--) {
C++;
Ans: O(nlogn)
```